Data Sheet
Fujitsu PRIMERGY TX150 S7 Mono-Socket Intel® Xeon® processor server

The one-processor tower server - maximized!

PRIMERGY TX industry standard tower servers: efficient, rock solid, record-breaking performance. PRIMERGY TX servers benefit from over 20 years pioneering work in the field of Green IT. That is how TX servers reach industry – leading performance per watt ratios, lowering the environmental impact and running costs. TX servers can easily be managed via the free of charge PRIMERGY ServerView Suite, saving IT admin costs. That's efficient performance. Our made-to-measure service packages take care of your system every step of the way. Rest assured, PRIMERGY TX servers are put through 5000 boot cycles - that's rock solid performance. PRIMERGY TX servers are flexible systems capable of using up to two processors and up to 20 hard disks. Tower to rack mounting kits are available for most TX systems to help you move to a consolidated rack infrastructure. TX servers have a tradition of setting record-breaking performance levels. So, whether you use them as tower or rack servers, for file, print or application purposes, you will benefit from record-breaking performance. PRIMERGY TX: a tower of strength.

PRIMERGY TX150 S7

The PRIMERGY TX150 S7: the right system for SMEs or non-mission-critical decentralized infrastructures where the main focus is on expandability and availability. The expandability and availability come from the 6 expansion slots (5 of which PCIe Gen 2) and up to 8x 2.5" hot-plug hard disks. Increase the system's availability and energy efficiency through the use of optional redundant power supplies boasting up to 89% energy efficiency. The TX150 S7 also offers up to the latest generation Intel® Xeon® processor 3400 series single processor platform, delivering excellent energy-efficient performance at an attractive price. The PRIMERGY TX150 S7: the one processor tower server – maximized!

Green IT

Features and Benefits

Main Features	Benefits
■ By combining the latest Intel® mono-processor platform and SAS 2.0 hard disks with Fujitsu's engineering, you can get great performance with low energy consumption.	■ High performance and energy efficiency
■ Hot plug hard disks: choose between max. 4x 3.5 or max. 8x 2.5". Power supply units: choose between standard or redundant.	■ High availability options to suit your business
■ Up to 32GB of RAM and 6 expansion slots (5 of which second generation PCIe slots)	■ High expandability - the TX150 S7 grows with your business.
■ The PRIMERGY TX150 S7 can be integrated into a rack infrastructure with the tower to rack conversion kit	■ High versatility - increases your investment's lifetime
■ The green touch points, the system ID card and the customer self-service module make servicing the TX150 S7 easier	■ High serviceability - saves your time

Technical details

Mainboard	
Mainboard type	D 2759
Chipset	Intel® 3420
Processor quantity and type	1 x Intel® Core™ i3 processor / Intel® Pentium® processor / Intel® Xeon® processor L3400 series / Intel® Xeon® processor X3400 series
Processor	Intel® Core™ i3-540 processor (2C/4T, 3.06 GHz, TLC: 4 MB, Turbo: No, 1333 MHz, 73 W)
	Intel® Core™ i3-550 processor (2C/4T, 3.20 GHz, TLC: 4 MB, Turbo: No, 1333 MHz, 73 W)
	Intel® Pentium® processor G6950 (2C, 2.80 GHz, TLC: 3 MB, Turbo: No, 1066 MHz, 73 W)
	Intel® Xeon® processor L3406 (2C/4T, 2.26 GHz, TLC: 4 MB, Turbo: 2/2, 1066 MHz, 30 W)
	Intel® Xeon® processor L3426 (4C/8T, 1.86 GHz, TLC: 8 MB, Turbo: 2/2/9/10, 1333 MHz, 45 W)
	Intel® Xeon® processor X3430 (4C/4T, 2.40 GHz, TLC: 8 MB, Turbo: 1/1/2/3, 1333 MHz, 95 W)
	Intel® Xeon® processor X3450 (4C/8T, 2.66 GHz, TLC: 8 MB, Turbo: 1/1/4/4, 1333 MHz, 95 W)
	Intel® Xeon® processor X3470 (4C/8T, 2.93 GHz, TLC: 8 MB, Turbo: 2/2/4/5, 1333 MHz, 95 W)
	Intel® Xeon® processor X3480 (4C/8T, 3.06 GHz, TLC: 8 MB, Turbo: 2/2/4/5, 1333 MHz, 95 W)
Memory slots	6
Memory slot type	DIMM (DDR3)
Memory capacity (min. - max.)	1 GB - 32 GB
Memory protection	ECC
Memory notes	For the following modules a maximum of 4 DIMMs can be configured: 4GB (quad-ranked) with 1066MHz, 8GB RDIMM, all UDIMM modules. Maximum configurable memory capacity: UDIMMs (max. 16GB) with all processors; RDIMMs (max. 32 GB) with Xeon CPUs only. The following modules can be configured 6x: 4GB (dual-rank) and 2GB (dual-rank).
Memory modules	1 GB (1 module(s) 1 GB) DDR3, unbuffered, ECC, 1333 MHz, PC3-10600, DIMM
	2 GB (1 module(s) 2 GB) DDR3, registered, ECC, 1333 MHz, PC3-10600, DIMM
	2 GB (1 module(s) 2 GB) DDR3, unbuffered, ECC, 1333 MHz, PC3-10600, DIMM
	4 GB (1 module(s) 4 GB) DDR3, registered, ECC, 1333 MHz, PC3-10600, DIMM
	4 GB (1 module(s) 4 GB) DDR3, unbuffered, ECC, 1333 MHz, PC3-10600, DIMM
	8 GB (1 module(s) 8 GB) DDR3, registered, ECC, 1066 MHz, PC3-8500, DIMM
Interfaces	
USB ports	10 x USB 2.0 (3x front, 4x rear, 3x internal)
Graphics (15-pin)	1 x VGA
Serial 1 (9-pin)	1 x serial RS-232-C, usable for iRMC or system or shared
Serial 2 (9-pin)	1 x serial RS-232-C (optional)
LAN / Ethernet (RJ-45)	1 x Gbit/s Ethernet
Service LAN (RJ45)	1 x dedicated service LAN port for iRMC S2 (10/100 Mbit/s) Service LAN traffic can be switched to shared onboard Gbit LAN port
Onboard or integrated Controller	
RAID Controller	Integrated RAID 0/1 or RAID 5/6 controller for SAS base units (option, occupies one PCIe slot). See under Components RAID controller

Onboard or integrated Controller	
SATA Controller	Intel® 3420 Ibex Peak PCH Platform Control Hub, 2 ports used for accessible drives 4 port for internal SATA HDDs with RAID 0, 1, 10 for Windows and Linux;
Remote Management Controller	Integrated Remote Management Controller (iRMC S2, 32 MB attached memory incl. graphics controller), IPMI 2.0 compatible
Trusted Platform Module (TPM)	Infineon / 1.2 (option)
Slots	
PCI Express 2.0 x1 (mech. x4)	2 x short
PCI-Express 2.0 x4 (mech. x8)	1 x Low profile ready, full height, long 3,3 V
PCI-Express 2.0 x8	2 x short 3,3V
PCI slots	1 x PCI 32/33 MHz, 1x long, 5V
Slot Notes	in SAS configuration 1x PCI-Express occupied by modular RAID controller.
Drive bays	
Hard disk bay configuration	4x 3.5-inch, for SAS / SATA or 8x 2.5-inch for SAS/SATA/SSD optional
Accessible drive bays	3 x 5.25/1.6-inch
Notes accessible drives	all possible options described in relevant system configurator
Number of fans	1
Fan configuration	1 standard fan
Operating panel	
Operating buttons	On/off switch NMI button Reset button
Status LEDs	System status (amber / yellow) Identification (blue) Hard disks access (green) Power (amber / green) At system rear side: System status (amber / yellow) Identification (blue) LAN connection (green) LAN speed (green / yellow)
Service display	Optional: ServerView Local Service Panel (LSP) ServerView Local Service Display (LSD)
BIOS	
BIOS features	ROM based setup utility Recovery BIOS BIOS settings save and restore Local BIOS update from USB device Online update tools for main Windows and Linux versions Local and remote update via ServerView Update Manager SMBIOS V2.4 Remote PXE boot support Remote iSCSI boot support

Operating Systems and Virtualization Software

Certified or supported operating systems and virtualization software	Microsoft® Microsoft® Hyper-V™ Server 2008 R2
	Microsoft® Windows Server® 2008 R2 Datacenter
	Microsoft® Windows Server® 2008 R2 Enterprise
	Microsoft® Windows Server® 2008 R2 Standard
	Microsoft® Windows Server® 2008 R2 Foundation
	Microsoft® Microsoft® Windows Web Server 2008 R2
	Microsoft® Windows® Small Business Server 2011 Premium Add-On
	Microsoft® Windows® Small Business Server Standard 2011
	Microsoft® Windows® Server 2008 Enterprise
	Microsoft® Windows® Server 2008 Standard
	Microsoft® Microsoft® Windows® Small Business Server 2008 Standard
	Microsoft® Microsoft® Windows® Small Business Server 2008 Premium
	Microsoft® Windows Server® 2003 Enterprise Edition
	Microsoft® Windows Server® 2003 Standard Edition
	Microsoft® Windows Server® 2003 Web Edition
	VMware vSphere™ 4.1
	VMware vSphere™ 4.1 Embedded
	VMware vSphere™ 4.0 Installable
	VMware vSphere™ 4.0
	VMware vSphere™ 4.0 Embedded
	VMware vSphere™ 4.0 Installable
	Novell® SUSE Linux Enterprise Server 11
	Novell® SUSE Linux Enterprise Server 10
	Novell® SUSE Linux Enterprise Server 10 with XEN
	Red Hat® Enterprise Linux 6
	Red Hat® Enterprise Linux 5
	Red Hat® Enterprise Linux 5 with XEN
	Citrix® XenServer®
Operating system release link	http://docs.ts.fujitsu.com/dl.aspx?id=a9e600b9-e4cb-4f48-aa41-632f69058421
Operating system notes	Support of other Linux derivatives on demand

Server Management

Standard	ASR&R Automatic Server Recovery and Restart PDA Prefailure Detection and Anaylsis Online update packages for BIOS, firmware drivers and ServerView Agents ServerView Integration solutions for Microsoft SMS, MOM, SCOM, SCCM and Altiris Deployment Solution ServerView Deployment Manager (fully functional 30-day trial version) ServerView Deployment Manager (fully functional 30-day trial version)
Option	iRMC S2 Advanced Pack ServerView Integration for Tivoli TEC®, Tivoli NetView, HP NNM and HP Operations Manager
Server Management notes	Regarding Operating System dependencies and product details for ServerView Suite Software Products see dedicated Product Data sheets.

Dimensions / Weight

Floor-stand (W x D x H)	205 x 584 x 444 mm
Rack (W x D x H)	482 x 570 x 220 mm
Dimension notes	Floorstand Width 306 mm with tilt protection; depth measured excludes handles on redundant PSU. Rack depth excludes handles of redundant PSU and rack front.
Height Unit Rack	5 U
Weight	21-28 kg
Weight notes	Actual weight may vary depending on configuration
Rack integration kit	Rack integration kit as option

Dimensions / Weight / Environmental (Base unit specific)	
Environmental	
Noise emission	Measured according to ISO 7779 and declared according to ISO 9296
Sound pressure (LpAm)	SATA: 24 dB(A) idle mode/ 25 dB(A) operation mode; SAS: 31 dB(A) idle mode/ 33 dB(A) operation mode
Sound power (LWAd; 1B = 10dB)	SATA: 4.2 B idle mode/ 4.2 B operation mode ; SAS: 4.9 B idle mode/ 5.1 B operation mode
Noise notes / description	May vary according to configuration
Operating ambient temperature	10 - 35°C
Operating relative humidity	10 - 85 % (non condensing)
Operating environment	FTS 04230 – Guideline for Data Center (installation locations)
Operating environment Link	http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe
Electrical values	
Power supply configuration	Base unit specific: 1x standard power supply or1x hot-plug power supply or 2x hot plug power supply for redundancy
Standard power supply output	350W (85% efficiency)
Hot-plug power supply output	450W (89% efficiency)
Hot-plug power supply redundancy	Yes
Rated voltage range	100 V - 240 V
Rated frequency range	47 Hz - 63 Hz
Rated current max.	6A - 3A The rated current in basic configuration values are pending confirmation.
Rated current in basic configuration	1.9 A - 0.8 A
Active power (min. configuration)	80 W
Active power (max. configuration)	258 W
Apparent power (max. configuration)	81 VA - 258 VA (max. active power and max. apparent power values are configuration dependent) VA
Heat emission	928.8 kJ/h (880.3 BTU/h)
Energy Star ® 1.0 certified configurations	
The following Energy Star Familiy configuration options use less energy and reduce greenhouse gas emissions:	
PRIMERGY TX150 S7 E-StarFam1 (Dual-Core CPUs with standard PSU) PRIMERGY TX150 S7 E-StarFam2 (Quad-Core CPUs with hot plug PSU)	
http://ts.fujitsu.com/products/standard_servers/e_efficient.html	
Compliance	
Germany	TÜV GS
Europe	CE Class A * CE label according to EU directives: Low-Voltage Directive 2006/95/EC, Electromagnetic Compatibility 2004/108/EC EN 300386 EN 50371 EN 55022 EN 55024 EN 60950 - 1 EN 61000-3-2 JEIDA EN 61000-3-3
USA/Canada	CSAc/us ULc/us FCC Class A
Global	CB RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronical equipment)
Japan	VCCI Class A + JIS 61000-3-2
Russia	GOST-R
China	CCC (G 4943/ GB 9245 / GB 17625)

Compliance	
Australia/New Zealand	C-Tick (AS / NZS CISPR 22 Class A)
Taiwan	BSMI Class A (CNS 13438, CNS 14336) CNS 13436
Compliance notes	There is general compliance with the safety requirements of all European countries and North America. National approvals required in order to satisfy statutory regulations or for other reasons can be applied for on request. Additional compliance with: Kenya:KEBS; Kuwait: KUCAS; Nigeria:SONCap; South Africa:SABS; Belarus: STB; Kazahkstan: GOST-K; Ukraine: SEMPRO * Warning: This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.
Compliance link	https://sp.ts.fujitsu.com/sites/certificates/default.aspx

Components

Hard disk drives
SSD SATA, 3 Gb/s, 64 GB, SLC, hot-plug, 2.5-inch, enterprise
SSD SATA, 3 Gb/s, 32 GB, SLC, hot-plug, 2.5-inch, enterprise
HDD SATA, 3 Gb/s, 500 GB, 7200 rpm, hot-plug, 3.5-inch, business critical
HDD SATA, 3 Gb/s, 500 GB, 7200 rpm, hot-plug, 2.5-inch, business critical
HDD SATA, 3 Gb/s, 320 GB, 5400 rpm, hot-plug, 2.5-inch, economic
HDD SATA, 3 Gb/s, 250 GB, 7200 rpm, hot-plug, 3.5-inch, economic
HDD SATA, 3 Gb/s, 250 GB, 7200 rpm, hot-plug, 3.5-inch, business critical
HDD SATA, 3 Gb/s, 160 GB, 7200 rpm, hot-plug, 2.5-inch, business critical
HDD SATA, 3 Gb/s, 160 GB, 5400 rpm, hot-plug, 2.5-inch, economic
HDD SATA, 3 Gb/s, 2 TB, 7200 rpm, hot-plug, 3.5-inch, business critical
HDD SATA, 3 Gb/s, 1 TB, 7200 rpm, hot-plug, 3.5-inch, business critical
HDD SAS, 6 Gb/s, 600 GB, 15000 rpm, hot-plug, 3.5-inch, enterprise
HDD SAS, 6 Gb/s, 600 GB, 10000 rpm, hot-plug, 2.5-inch, enterprise
HDD SAS, 6 Gb/s, 450 GB, 15000 rpm, hot-plug, 3.5-inch, enterprise
HDD SAS, 6 Gb/s, 450 GB, 10000 rpm, hot-plug, 2.5-inch, enterprise
HDD SAS, 6 Gb/s, 300 GB, 15000 rpm, hot-plug, 3.5-inch, enterprise
HDD SAS, 6 Gb/s, 300 GB, 10000 rpm, hot-plug, 2.5-inch, enterprise
HDD SAS, 6 Gb/s, 146 GB, 15000 rpm, hot-plug, 2.5-inch, enterprise
HDD SAS, 6 Gb/s, 146 GB, 10000 rpm, hot-plug, 2.5-inch, enterprise
HDD SAS, 6 Gb/s, 73 GB, 15000 rpm, hot-plug, 2.5-inch, enterprise
HDD SAS, 3 Gb/s, 146 GB, 15000 rpm, hot-plug, 3.5-inch, enterprise

Hard disk notes	
	One Gigabyte equals one billion bytes, when referring to hard disk drive capacity. Accessible capacity may vary, also depending on used software No mix of SAS and SATA HDDs possible

Tape Drives
DDS Gen5, 36 GB, 3 MB/s, half height, USB 2.0
DDS Gen6, 80 GB, 6 MB/s, half height, USB 2.0
LTO2HH Ultrium, 200 GB, 24 MB/s, half height, SAS 3Gb/s
LTO3HH Ultrium, 400 GB, 60 MB/s, half height, SAS 3Gb/s
LTO4HH Ultrium, 800 GB, 120 MB/s, half height, SAS 3Gb/s
LTO5HH Ultrium, 1500 GB, 140 MB/s, half height, SAS 6Gb/s
RDX Drive, 80 GB, 160 GB, 320 GB, 500 GB, 25 MB/s, half height, USB 2.0

Optical drives	Blu-ray Disc™ Combo Drive, (2x BD-ROM; 8x DVD; 24x CD), slimline, SATA I
	Blu-ray Disc™ Triple Writer, (4x BD-RW; 16x DVD; 40x CD), half height, SATA I
	DVD-ROM, (16xDVD; 48xCD), half height, SATA I
	DVD Super Multi, (16xDVD, 8xDVD+RW 6xDVD-RW, 12xDVD-RAM; 48xCD, 32xCD-RW), half height, SATA I
	DVD Super Multi, (8xDVD/DVD+RW, 6xDVD-RW, 5xDVD-RAM; 24xCD/CD-R, 16xCD-RW), slimline, SATA I
SCSI / SAS Controller	SCSI Ctrl. 320 MB 1ch int/ext PCIe x1
	SAS Ctrl. 6 Gb 8 ports ext. PCIe Gen2 x8
	SAS Ctrl. 3 Gb 4 ports int. / 4 ports ext. PCIe x4
RAID Controller	RAID 5/6 Ctrl., HDD SAS 6 Gb, LSI , 8 ports ext. RAID level: 0, 1, 10, 5, 50, 6, 60, 512 MB Cache, optional BBU (based on LSI SAS2108)
	Integrated RAID 5/6 Ctrl., HDD SAS 6 Gb, Fujitsu , 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 512 MB Cache, optional BBU (based on LSI SAS2108)
	Integrated RAID 0/1 Ctrl., SAS/SATA 6 Gb, Fujitsu , 8 ports int. RAID level: 0, 1, 10, no BBU support (based on LSI SAS2008)
	Integrated RAID 0/1 Ctrl., SAS/SATA 3 Gb, 8 ports int. RAID level: 0, 1, 1E, no BBU support (based on LSI 1068e)
	Integrated RAID 0/1 Ctrl., SAS/SATA 3 Gb, 4 ports int. RAID level: 0, 1, 1E, no BBU support (based on LSI 1064e)
LAN Controller	Ethernet Ctrl. 1 x 1 Gb Intel® Gigabit CT Desktop Adapter
	Ethernet Ctrl. 1 x 1 Gb Intel® PRO/1000 PF Server Adapter
	Ethernet Ctrl. 1 x 1 Gb Intel® PRO/1000 PT Server Adapter
	Ethernet Ctrl. 2 x 10 Gb Fujitsu Eth Ctrl 2x10Gbit PCIe x8 D2755 SFP+
	Ethernet Ctrl. 2 x 10 Gb Intel® Ethernet Server Adapter X520-DA2
	Ethernet Ctrl. 2 x 1 Gb Fujitsu Eth Ctrl 2x1Gbit PCIe x4 D2735 Cu
	Ethernet Ctrl. 4 x 1 Gb Fujitsu Eth Ctrl 4x1Gbit PCIe x4 D2745 Cu
Rack infrastructure	Cable Arm 2U for 3rd party racks
	Cable Management for 19-inch DataCenter / PRIMECENTER Racks
	Rackmount kit full extraction (760mm), tool less mounting

Warranty	
Standard Warranty	1 year
Service level	On-site Service (depending on country)
Maintenance and Support Services - the perfect extension	
Recommended Service	7x24, Onsite Response Time: 4h - For locations outside of EMEA please contact your local Fujitsu partner.
Spare Parts availability	5 years
Service Weblink	http://ts.fujitsu.com/Supportservice

More information

Fujitsu platform solutions

In addition to Fujitsu PRIMERGY TX150 S7, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Dynamic Infrastructures
With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure as-a-Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

Computing Products
www.fujitsu.com/global/services/computing/

Software
www.fujitsu.com/software/

More information

Learn more about Fujitsu PRIMERGY TX150 S7, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
http://ts.fujitsu.com/Primergy

Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment.
Using our global know-how, we aim to resolve issues of environmental energy efficiency through IT.
Please find further information at http://www.fujitsu.com/global/about/environment/

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2011-05-03 CE-EN

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